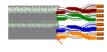
# **Detailed Specifications & Technical Data**



## 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information please call

1-800-Belden1



### **General Description:**

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductor, FEP Insulation, Ripcord, Flamarrest® Jacket

Isage (Overall)	
Suitable Applications:	Premise Horizontal Cable, Gigabit Ethernet, POE, POE+,100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments
hysical Characteristics (Overall)	
Conductor AWG:	
# Pairs AWG Stranding Conductor Material   4 23 Solid BC - Bare Copper	
Total Number of Conductors:	8
nsulation	
Insulation Material	
Insulation Material FEP - Fluorinated Ethylene Propylene	
Duter Shield	
Outer Shield Material:	
Outer Shield Material Unshielded	
Outer Jacket Outer Jacket Material:	
Outer Jacket Trade Name Outer Jacket Material	
Flamarrest® LS PVC - Low Smoke Polyvinyl Chloride	
Outer Jacket Diameter:	
Nom. Dia. (in.) 0.365 0.165	
Outer Jacket Ripcord:	Yes
Dverall Cable	
Overall Nominal Diameter:	0.365 x 0.165 in.
Pair	
Pair Color Code Chart: Number Color	
1 White/Blue Stripe & Blue	
2 White/Orange Stripe & Orange	
3 White/Green Stripe & Green	
4 White/Brown Stripe & Brown	
echanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +80°C
Bulk Cable Weight:	31 lbs/1000 ft.
Max. Recommended Pulling Tension:	45 lbs.
Min. Bend Radius/Minor Axis:	0.500 in.
Min. Bend/Installation:	1.500 in.
pplicable Specifications and Agency Compliance (	Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMP

# **Detailed Specifications & Technical Data**



## ENGLISH MEASUREMENT VERSION

# 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

CEC/C(UL) Specification:	СМР
EU Directive 2011/65/EU (ROHS II):	Yes
Other Standards:	ISO/IEC 11801 ed 2.1 (2008) Class E
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 6 - TIA 568.C.2
Applicable Patents:	
Country www.belden.com/p	
Flame Test	
UL Flame Test:	NFPA 262 Plenum Flame Test (UL910)(FT6)
CSA Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Non-Plenum Number:	1872A
Electrical Characteristics (Overall)	
Nom. Mutual Capacitance:	
Capacitance (pF/ft) 15.0	
Maximum Capacitance Unbalance (pF/100 m):	49
Nominal Velocity of Propagation:	
<b>VP (%)</b> 72	
Maximum Delay:	
Delay (ns/100 m) 510 @ 100MHz	
Max. Delay Skew:	
Delay Skew (ns/100 m) 25	
Maximum Conductor DC Resistance:	
DCR @ 20°C (Ohm/100 m) 7.500	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	
Maximum DCR Unbalanced:	
DCR Unbalance @ 20°C (%) 3	
Electrical Characteristics-Premise (Overall)	
Flecifical Characteristics-Premise (Overain	

## Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	1.900	75.3	75.3	73.4	73.4	20.000
4	3.700	66.3	66.3	62.6	62.6	23.000
8	5.300	61.8	61.8	56.5	56.5	24.500
10	5.900	60.3	60.3	54.4	54.4	25.000
16	7.500	57.2	57.2	49.7	49.7	25.000
20	8.400	55.8	55.8	47.3	47.3	25.000
25	9.500	54.3	54.3	44.9	44.9	24.300
31.25	10.600	52.9	52.9	42.2	42.2	23.600
62.5	15.400	48.4	48.4	33.0	33.0	21.500
100	19.800	45.3	45.3	25.5	25.5	21.000

# **Detailed Specifications & Technical Data**



### ENGLISH MEASUREMENT VERSION

### 1874A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

155	25.100	42.4	42.4	17.3	17.3	21.000
200	29.000	40.8	40.8	11.8	11.8	21.000
250	32.800	39.3	39.3	6.5	6.5	18.000
300	36.400	38.1	38.1	1.7	1.7	18.000
350	39.800	37.1	37.1	-2.6	-2.6	17.000
400	43.000	36.3	36.3			14.000
450	46.900	35.5	35.5			14.000
500	48.900	34.8	34.8			14.000
550	51.800	34.2	34.2			14.000

#### Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 12	100 ± 15	67.8	64.8
4	100 ± 12	100 ± 15	55.7	52.8
8	100 ± 12	100 ± 15	49.7	46.7
10	100 ± 12	100 ± 15	47.8	44.8
16	100 ± 12	100 ± 8	43.7	40.7
20	100 ± 12	100 ± 8	41.8	38.8
25	100 ± 15	100 ± 8	39.8	36.8
31.25	100 ± 15	100 ± 8	37.9	34.9
62.5	100 ± 15	100 ± 8	31.8	28.9
100	100 ± 15	100 ± 8	27.8	24.8
155	100 ± 15	100 ± 8	24.0	21.0
200	100 ± 15	100 ± 8	21.7	18.8
250	100 ± 20	100 ± 8	19.8	16.8
300	100 ± 20	100 ± 8	18.3	15.3
350	100 ± 22	100 ± 8	16.9	13.9
400	100 ± 32	100 ± 8	15.8	12.8
450	100 ± 32	100 ± 8	14.7	11.7
500	100 ± 32	100 ± 8	13.8	10.8
550	100 ± 32	100 ± 8	13.0	10.0

#### Notes (Overall)

Notes: Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Values above 350 MHz are information only. Third party verified to ANSI/TIA-568-C.2 Category 6.

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
	Futup	Ship Weight	000	Notes	item Desc
1874A D15A1000	1,000 FT	39.000 LB	BLUE		CAT6+ 4PRB U/UTP CMP RIB
1874A D151000	1,000 FT	37.000 LB	BLUE	С	CAT6+ 4PRB U/UTP CMP REEL
1874A F6HA1000	1,000 FT	39.000 LB	GRAY, DARK PEARL		CAT6+ 4PRB U/UTP CMP RIB
1874A F6H1000	1,000 FT	37.000 LB	GRAY, DARK PEARL	С	CAT6+ 4PRB U/UTP CMP REEL
1874A 002A1000	1,000 FT	39.000 LB	RED		CAT6+ 4PRB U/UTP CMP RIB
1874A 003A1000	1,000 FT	39.000 LB	ORANGE		CAT6+ 4PRB U/UTP CMP RIB
1874A 004A1000	1,000 FT	39.000 LB	YELLOW		CAT6+ 4PRB U/UTP CMP RIB
1874A 005A1000	1,000 FT	39.000 LB	GREEN, DARK		CAT6+ 4PRB U/UTP CMP RIB
1874A 007A1000	1,000 FT	39.000 LB	VIOLET		CAT6+ 4PRB U/UTP CMP RIB
1874A 0071000	1,000 FT	37.000 LB	VIOLET	С	CAT6+ 4PRB U/UTP CMP REEL
1874A 009A1000	1,000 FT	39.000 LB	WHITE		CAT6+ 4PRB U/UTP CMP RIB
1874A 0091000	1,000 FT	37.000 LB	WHITE	С	CAT6+ 4PRB U/UTP CMP REEL
1874A 0101000	1,000 FT	37.000 LB	BLACK	С	CAT6+ 4PRB U/UTP CMP REEL
1874A 877A1000	1,000 FT	39.000 LB	NATURAL		CAT6+ 4PRB U/UTP CMP RIB
1874A 8771000	1,000 FT	37.000 LB	NATURAL	С	CAT6+ 4PRB U/UTP CMP REEL

Notes: C = CRATE REEL PUT-UP.

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